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## (57) Abstract: AMPLITUDE MODULATOR QUADRATURE (54) MULTILEVEL

change of a D/A converter. which is caused by the temperature quadrature amplitude modulator of PURPOSE: To provide a multilevel the fluctuation of the output level high quality by compensating surely

signals D11, D12, D21 and D22 and converters 1 and 2 receive the digital CONSTITUTION: The D/A

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signals B2p and B2n of the negative quadruple amplitude. The differentia signals B1 and B2 having the B1 and B2 and transmits them as the amplifiers 3 and 4 receive the signals convert them into the base band average levels at zero. and 72 generates the voltage Vcl and and 7 calculate the average levels of control voltage generating circuits 6 calculating parts 61 and 71 of the signals B1p-B2n and produces a and Vc2. A multiplier 5 receives the response to the control voltage Vc1 output levels are controlled in phases respectively. Meanwhile, the Bln of positive phases and the smoothed base band signals B1p and the signals B1p-B2n respectively. multilevel quadrature amplitude Vc2 so as to set the difference of the modulated signal Sm. The average Then, the voltage generating parts 62

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